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	TRANSMITTAL LETTER DESIGNATED/ELECT		U.S. APPLICATION NO. (If known, see 37 CFR 1.5						
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INTE	RNATIONAL APPLICATION NO.	INTERNATIONA		10/049982					
1 .	EP00/07936	ı		PRIORITY DATE CLAIMED					
	PCT/EP00/07936 14 AUGUST 2000 20 AUGUST 1999/20 APRIL 20 TITLE OF INVENTION								
INTE	RACTIVE COMMUNICATION SYS	STEM AND METHO	D FOR CONTROLLT	NG THE SAME					
	CANT(S) FOR DO/EO/US REGER Walter REHM Vis	on CATIED: - 1	D 1 00007777						
Applic	Gerd REGER, Walter REHM, Klaus SATLER, and Bernd SCHILLER Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information								
1. X	This is a FIRST submission of items								
2.	This is a SECOND or SUBSEQUEN								
	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
5.	4. LX The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. \(\frac{1}{2} \) A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
	a. is attached hereto (required			al Bureau).					
	b. X has been communicated by			•					
<u>د اس</u>	c. is not required, as the appli								
6. X	An English language translation of the a. X is attached hereto.	ne International Appli	cation as filed (35 U.S.)	C. 371(c)(2)).					
	b. has been previously submi								
7. X									
	a. are attached hereto (required only if not communicated by the International Bureau).								
•	b. have been communicated by the International Bureau.								
	c. have not been made; however, the time limit for making such amendments has NOT expired.								
	d. X have not been made and wi	ll not be made.							
8.	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).								
9. [图	An oath or declaration of the inventor	r(s) (35 U.S.C. 371(c)	(4)). (unsign	ed)					
10.	An English lanugage translation of th Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the Inter	national Preliminary Ex	amination Report under PCT					
Item	s 11 to 20 below concern document	(s) or information in	cluded:						
11.	An Information Disclosure Statemen	nt under 37 CFR 1.97	and 1.98.						
12.	An assignment document for record	ling. A separate cove	r sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.					
13.X									
14.	A SECOND or SUBSEQUENT preliminary amendment.								
15.	A substitute specification.								
16.	A change of power of attorney and/or address letter.								
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.								
18.	A second copy of the published international application under 35 U.S.C. 154(d)(4).								
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).								
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page 1 of 2			February 20, 2002	Da Dlonon					
			DATE Ex	press Label No.: <u>EL846173945US</u>					

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BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO							
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months from the ear	0 for furnishing the oath liest claimed priority date	or declaration later than e (37 CFR 1.492(e)).	20	\$ 130.00			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$.			
Total claims	23 - 20 =	- 3	x \$18.00	\$ 54.00			
Independent claims	1 -3 ==	0	x \$84.00	\$			
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +							
		\$ 537.00					
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a. X A check in the amount of \$ 537.00 to cover the above fees is enclosed.							
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.							
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.							
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2322.66244

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Gerd Reger et al.		I hereby certify that this paper is being deposited with
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International	Filing Date:)	DATE Express Label No.: EL846173945US
	14 August 2000)	
Serial No.:	Unassigned)	
Filed:	20 February 2002)	
For:	INTERACTIVE COMMUNICATION)	
	SYSTEM AND METHOD FOR)	
	CONTROLLING THE SAME)	
Art Unit:	Unassigned)	
Examiner:	Unassigned)	
	PRELIMINARY A	MEN	NDMENT .
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	er for Patents		

Washington, D.C. 20231

Dear Sir:

Prior to examination of this application, please amend the application as

follows:

IN THE CLAIMS:

Please cancel claims 1-17 and add new claims 18-40, as follows:

18. (New) The method for controlling an interactive or bi-directional communication system, preferably for controlling the supply of information in interactive communication systems, wherein

at least one first communication terminal and at least one second communication terminal are registered with at least one switch station which is independent of said communication terminals, and

at least one direct connection between at least one first communication terminal and at least one second communication terminal is automatically established, maintained, mediated or interrupted by the switch station, whereby

the number of connections or the duration of the connection is controlled by predefined criteria.

19. (New) The method according to claim 18, wherein

an arbitrary number of direct connections between at least one communication terminal and at least one second communication terminal are established, maintained, mediated or interrupted simultaneously or successively.

20. (New) The method according to claim 18, wherein

data, which are not actively selected by the users, are transmitted, processed, outputed or accessed, whereby

the number of transmissions, processings, outputs or accesses are controlled by predefined criteria, and

the duration of the transmission, the processing, the output or the access is controlled by predefined criteria.

21. (New) The method according to claim 20, wherein

the predefined criteria are arbitrarily definable, preferably the predefined criteria are selected from a group containing a duration of data, an amount of data and a kind of data.

22. (New) The method according to claim 20, wherein

the number of connections, data accesses, data transmissions, data processings or data outputs is arbitrary, preferably 1 to 100, more preferably 1 to 25, especially preferably 1 to 10, and

the duration of the transmission, the access, the processing or the output is up to 120 minutes, preferably 1 microsecond to 10 minutes, more preferably 0.1 seconds to 60 seconds, especially preferably 1 second to 30 seconds.

23. (New) The method according to claim 18, wherein

the first communication terminal and the second communication terminal act as data sources and data receivers at the same time.

24. (New) The method according to claim 20, wherein

on occurrence of a predefined first operating state (a) of at least one first communication terminal, a second operating state (b) is established, whereby

said second operating state (b) is the at least single establishment or maintenance of a communication connection between said first communication terminal and a second communication terminal acting as a data source and the at least single transmission of external data, which has not actively been selected by the user, and the at least single storage, processing or outputting of said external data by/at the first communication terminal for a predefined or arbitrarily definable period of time, whereby

said communication connection is newly established, and the transmission, storage, processing or output is established newly, instead of or additionally to an existing transmission, storage, processing or output.

25. (New) The method according to claim 24, wherein

on occurrence of a predefined third operating state (c) after the previously occurred second operating state (b), a fourth operating state (d) is established.

26. (New) The method according to claim 24, wherein

the first operating state (a) is a predefined use of the first communication terminal or a part of the first communication terminal at a predefined time or for a predefined period of time, or a predefined decreasing, non-, fewly or less varying use or an interruption of the use at a predefined time or for a predefined period of time,

preferably the decrease, the decrease in variation or the interruption of the reception, the transmission or the output of external data or their representations perceptible by the human senses via an existing connection of the first communication terminal to an external data source or a further communication terminal,

preferably the decrease, the decrease in variation or the interruption of an input procedure, a processing procedure, a storing procedure or an output procedure at/of the first communication terminal,

especially preferably the decrease, the decrease in variation or the interruption of an action or interaction of the user with/at the first communication terminal.

27. (New) The method according to claim 24, wherein

the first operating state (a) is a user interactions or a decreasing, non- or less varying or an interrupted user interaction with the first communication terminal at a predefined time or for a predefined period of time via remote control, keyboard, mouse, joystick, pen, trackball, patchfield, touchscreen, audiovisual recording or reproduction media or interfaces therefore.

- 28. (New) The method according to claim 25, wherein
- (c) is a predefined use interruption, use or a reuse of the first communication terminal or a part of the first communication terminal at a predefined time or for a predefined period of time, an increase of use or an increasingly varying use,

preferably of the reception, the transmission or the output of external data or their representations perceptible by the human sense organs via an existing connection of the first communication terminal to an external data source or a further communication terminal or the establishment of such a connection at a predefined time or for a predefined period of time,

preferably of an input-, processing-, storage- or output procedure of the communication terminal,

especially preferably of an action or interaction of the user with/at the first communication terminal.

29. (New) The method according to claim 25, wherein

the third operating state (c) is a user interaction or an increasing, increasingly varying user interaction with the first communication terminal at a predefined time or for a predefined period of time via remote control keyboard, mouse, joystick, pen, track ball, patch field, touch screen, audio/visual recording or reproduction media or interfaces therefore.

30. (New) The method according to claim 25, wherein

the third operating state (c) is also a first operating state (a) or a second operating state (b) depending on a predefined time or period of time or a predefined kind, composition or amount of the transmitted, processed, stored or outputed external data or their representations perceptible by human sense organs.

31. (New) The method according to claim 25, wherein

the fourth operating state (d) is the termination or interruption of the second operating state (b) for a predefined period of time,

preferably the termination or interruption of the communication connection between the communication terminal and an external data source or the termination or interruption of the transmission, storage, processing or output of the external data at/by the first communication terminal,

preferably the change to or the new establishment of a communication connection which existed before the occurrence of the first operating state (a), the change to a predefined further communication connection, the change to the operating state before the occurrence of the first operating state (a), the change to a predefined further operating state or a predefined action of the first communication terminal or interaction with further communication terminals or external data sources.

32. (New) The method according to claim 25, wherein

the first operating state (a), the operating state before the occurrence of the first operating state (a), the second operating state (b), the third operating state (c) or the fourth operating state (d) or the times, periods of time, the kinds, compositions or amounts of data related to them, are automatically recorded, recognized, measured, processed, stored stationarily or non-stationarily or transmitted to one or several members of the communication system, preferably to external data sources or providers of the communication system.

33. (New) The method according to claim 32, wherein

the recorded-, recognized-, measured-, processed-, the stored or transmitted data are protected against an intrusion or access by the user.

34. (New) The method according to claim 25, wherein

predefined or arbitrarily definable units or control codes are formed or assigned by a qualification, quantification, categorization or weighting of the operating states (a), (b), (c) or (d) or the times, periods of time, the kinds, compositions or amounts of data related to them or by predefined external data, preferably data retrieved by the user.

35. (New) The method according to claim 34, wherein

the control codes, units or predefined combinations of said units and control codes are used to automatically control or

account

- at least one of the operating states (a), (b), (c) or (d);
- the time and/or period of time related to it;
- the kind, composition and/or amount of the external data;
- the amount and/or kind of possible fees for the user, fee reductions, omitted fees, credited fees, refunded fees and/or equivalents preferably cash benefits, payments in kind and/or services;
- the amount and/or kind of possible fees and/or equivalents for third parties, preferably suppliers and/or initiators of the transmitted external data.
- 36. (New) The method according to claim 34, wherein

the actual units or control codes or the actions or values controlled by them, or the units or control codes or the

actions or values controlled by them, that are retrieved during a predetermined period of time are output at the first communication terminal, preferably as cash values or time values, or

are changed by a predefined use of the first communication terminal, or are stored stationarily or non-stationarily or are transmitted to one or several members of the communication systems, preferably to a second communication terminal in the communication system or to providers of the communication system.

37. (New) The method according to claim 20, wherein

the kind of output, the output frequency or intensity of the transmitted external data or their representations at the first communication terminal are predefined, automatically recognized, processed, stored stationarily or non-stationarily, protected against user access or intrusion or transmitted to one or several members of the communication system, preferably to second communication terminals or providers of the communication system.

38. (New) The interactive or bi-directional communication system having at least one first communication terminal, at least one second communication terminal and at least one switch station which is independent from said communication terminals, wherein

the hardware and the software of said communication terminals and the switch station is adapted to execute the method according to claim 18.

39. (New) The communication system according to claim 38, wherein

the communication system comprises at least one system that is selected from a group including a telecommunication system, a telephone system, a facsimile system, a radio system, a radio data system, a mobile phone, an interactive TV system, a pay-TV system, a pay-per-view system, a video-on-demand system, an interactive video system, a computer network, an intranet, an extranet, a multimedia network and the Internet.

acompass densem

40. (New) The communication system according to claim 38, wherein

the first communication terminal is a data receiver, preferably a telephone, mobile phone, PC or a client module, and the second communication terminal is a data source, preferably a content-provider server, especially preferably an adserver or an adpage.

REMARKS

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached Appendix is captioned "Version with markings to show changes made."

Prior to examination of this application, the Examiner is respectfully requested to consider the above-listed Amendment.

By

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

Lawrence J. Crain

Attorney for Applicant

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please cancel claims 1-17 and add new claims 18-40 as follows:

18. (New) The method for controlling an interactive or bi-directional communication system, preferably for controlling the supply of information in interactive communication systems, wherein

at least one first communication terminal and at least one second communication terminal are registered with at least one switch station which is independent of said communication terminals, and

at least one direct connection between at least one first communication terminal and at least one second communication terminal is automatically established, maintained, mediated or interrupted by the switch station, whereby

the number of connections or the duration of the connection is controlled by predefined criteria.

19. (New) The method according to claim 18, wherein

an arbitrary number of direct connections between at least one communication terminal and at least one second communication terminal are established, maintained, mediated or interrupted simultaneously or successively.

20. (New) The method according to claim 18, wherein

data, which are not actively selected by the users, are transmitted, processed, outputed or accessed, whereby

the number of transmissions, processings, outputs or accesses are controlled by predefined criteria, and

the duration of the transmission, the processing, the output or the access is controlled by predefined criteria.

21. (New) The method according to claim 20, wherein

the predefined criteria are arbitrarily definable, preferably the predefined criteria are selected from a group containing a duration of data, an amount of data and a kind of data.

22. (New) The method according to claim 20, wherein

the number of connections, data accesses, data transmissions, data processings or data outputs is arbitrary, preferably 1 to 100, more preferably 1 to 25, especially preferably 1 to 10, and

the duration of the transmission, the access, the processing or the output is up to 120 minutes, preferably 1 microsecond to 10 minutes, more preferably 0.1 seconds to 60 seconds, especially preferably 1 second to 30 seconds.

23. (New) The method according to claim 18, wherein

the first communication terminal and the second communication terminal act as data sources and data receivers at the same time.

24. (New) The method according to claim 20, wherein

on occurrence of a predefined first operating state (a) of at least one first communication terminal, a second operating state (b) is established, whereby

said second operating state (b) is the at least single establishment or maintenance of a communication connection between said first communication terminal and a second communication terminal acting as a data source and the at least single transmission of external data, which has not actively been selected by the user, and the at least single storage, processing or outputting of said external data by/at the first communication terminal for a predefined or arbitrarily definable period of time, whereby

said communication connection is newly established, and the transmission, storage, processing or output is established newly, instead of or additionally to an existing transmission, storage, processing or output.

25. (New) The method according to claim 24, wherein

on occurrence of a predefined third operating state (c) after the previously occurred second operating state (b), a fourth operating state (d) is established.

26. (New) The method according to claim 24, wherein

the first operating state (a) is a predefined use of the first communication terminal or a part of the first communication terminal at a predefined time or for a predefined period of time, or a predefined decreasing, non-, fewly or less varying use or an interruption of the use at a predefined time or for a predefined period of time,

preferably the decrease, the decrease in variation or the interruption of the reception, the transmission or the output of external data or their representations perceptible by the human senses via an existing connection of the first communication terminal to an external data source or a further communication terminal,

preferably the decrease, the decrease in variation or the interruption of an input procedure, a processing procedure,

a storing procedure or an output procedure at/of the first communication terminal,

especially preferably the decrease, the decrease in variation or the interruption of an action or interaction of the user with/at the first communication terminal.

27. (New) The method according to claim 24, wherein

the first operating state (a) is a user interactions or a decreasing, non- or less varying or an interrupted user interaction with the first communication terminal at a predefined time or for a predefined period of time via remote control, keyboard, mouse, joystick, pen, trackball, patchfield, touchscreen, audiovisual recording or reproduction media or interfaces therefore.

- 28. (New) The method according to claim 25, wherein
- (c) is a predefined use interruption, use or a reuse of the first communication terminal or a part of the first

communication terminal at a predefined time or for a predefined period of time, an increase of use or an increasingly varying use,

preferably of the reception, the transmission or the output of external data or their representations perceptible by the human sense organs via an existing connection of the first communication terminal to an external data source or a further communication terminal or the establishment of such a connection at a predefined time or for a predefined period of time,

preferably of an input-, processing-, storage- or output procedure of the communication terminal,

especially preferably of an action or interaction of the user with/at the first communication terminal.

29. (New) The method according to claim 25, wherein

the third operating state (c) is a user interaction or an increasing, increasingly varying user interaction with the first communication terminal at a predefined time or for a predefined period of time via remote control keyboard,

mouse, joystick, pen, track ball, patch field, touch screen, audio/visual recording or reproduction media or interfaces therefore.

30. (New) The method according to claim 25, wherein

the third operating state (c) is also a first operating state (a) or a second operating state (b) depending on a predefined time or period of time or a predefined kind, composition or amount of the transmitted, processed, stored or outputed external data or their representations perceptible by human sense organs.

31. (New) The method according to claim 25, wherein

the fourth operating state (d) is the termination or interruption of the second operating state (b) for a predefined period of time,

preferably the termination or interruption of the communication connection between the communication terminal

and an external data source or the termination or interruption of the transmission, storage, processing or output of the external data at/by the first communication terminal,

preferably the change to or the new establishment of a communication connection which existed before the occurrence of the first operating state (a), the change to a predefined further communication connection, the change to the operating state before the occurrence of the first operating state (a), the change to a predefined further operating state or a predefined action of the first communication terminal or interaction with further communication terminals or external data sources.

32. (New) The method according to claim 25, wherein

the first operating state (a), the operating state before the occurrence of the first operating state (a), the second operating state (b), the third operating state (c) or the fourth operating state (d) or the times, periods of time, the kinds, compositions or amounts of data related to them, are automatically recorded, recognized, measured, processed,

stored stationarily or non-stationarily or transmitted to one or several members of the communication system, preferably to external data sources or providers of the communication system.

33. (New) The method according to claim 32, wherein

the recorded-, recognized-, measured-, processed-, the stored or transmitted data are protected against an intrusion or access by the user.

34. (New) The method according to claim 25, wherein

predefined or arbitrarily definable units or control codes are formed or assigned by a qualification, quantification, categorization or weighting of the operating states (a), (b), (c) or (d) or the times, periods of time, the kinds, compositions or amounts of data related to them or by predefined external data, preferably data retrieved by the user.

35. (New) The method according to claim 34, wherein

the control codes, units or predefined combinations of said units and control codes are used to automatically control or account

- at least one of the operating states (a), (b), (c) or (d);
- the time and/or period of time related to it;
- the kind, composition and/or amount of the external data;
- the amount and/or kind of possible fees for the user, fee reductions, omitted fees, credited fees, refunded fees and/or equivalents preferably cash benefits, payments in kind and/or services;
- the amount and/or kind of possible fees and/or equivalents for third parties, preferably suppliers and/or initiators of the transmitted external data.

36. (New) The method according to claim 34, wherein

the actual units or control codes or the actions or values controlled by them, or the units or control codes or the actions or values controlled by them, that are retrieved during a predetermined period of time are output at the first communication terminal, preferably as cash values or time values, or

are changed by a predefined use of the first communication terminal, or are stored stationarily or non-stationarily or are transmitted to one or several members of the communication systems, preferably to a second communication terminal in the communication system or to providers of the communication system.

 $37. \hspace{0.1in} \text{(New)} \hspace{0.1in} \text{The method according to claim 20,}$ wherein

the kind of output, the output frequency or intensity of the transmitted external data or their representations at the first communication terminal are predefined, automatically recognized, processed, stored stationarily or non-

stationarily, protected against user access or intrusion or transmitted to one or several members of the communication system, preferably to second communication terminals or providers of the communication system.

38. (New) The interactive or bi-directional communication system having at least one first communication terminal, at least one second communication terminal and at least one switch station which is independent from said communication terminals, wherein

the hardware and the software of said communication terminals and the switch station is adapted to execute the method according to claim 18.

39. (New) The communication system according to claim 38, wherein

the communication system comprises at least one system that is selected from a group including a telecommunication system, a telephone system, a facsimile system, a radio system, a radio data system, a mobile phone, an interactive TV system, a pay-TV system, a pay-per-view system, a video-

on-demand system, an interactive video system, a computer network, an intranet, an extranet, a multimedia network and the Internet.

40. (New) The communication system according to claim 38, wherein

the first communication terminal is a data receiver, preferably a telephone, mobile phone, PC or a client module, and the second communication terminal is a data source, preferably a content-provider server, especially preferably an adserver or an adpage.

7 LIQUARE **10/0499**82

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Interactive Communication System and Method for Controlling the Same

Description

The invention is related to an interactive and/or bidirectional communication system according to the preamble of claim 15 and a method for controlling the same according to the preamble of claim 1.

In interactive communication systems, the user does not play an only passive receptive role, but changes continuously between a sender and receiver role. In contrast to mass communication media of the 20th century, as for example TV- and radio transmissions, the user of a communication terminal in an interactive communication system himself controls duration of the information transmission, the kind and/or amount of information, which he receives.

The possibilities of placing commercial messages for financing the communication systems, therefore, are seriously limited. At present the commercial message has to be placed as a part of the content stream, which is selected by the user, for example as a so-called "banner" in the Internet, however, it needs connection capacities and therefore leads to an annoying waste of time. Furthermore, the effect may not sufficiently develop due to the limitation to a section of the whole reproduction surface ("window") or a part of the reproduction possibilities (only optical or only acoustical). The presentation possibilities are low compared with a fully animated TV-spot. Another crucial disadvantage is, that the placement of the

advertisement message as a part of a content stream depends on the attractivity of said content stream and/or of the provider of said content stream. Moreover, there is the problem of transaction expenditures and the transaction expenses during delivery, editorial processing, integration and billing with said provider. These problems are also present, if the commercial is placed within a fixedly defined window.

It is an object of the invention to provide an interactive and/or bi-directional communication system as well as a method for controlling the same, which overcomes the above-mentioned disadvantages of known communication systems and the respective control methods.

According to the invention, this problem is solved by a method according to claim 1 and a communication system according to claim 15.

According to the invention, in an interactive communication system, at least one first communication terminal and one second communication terminal, preferably arbitrary many first communication terminals and arbitrary many second communication terminals are registered with at least one switch station which is independent of said communication terminals and/or at least one direct connection, preferably arbitrary many successive and/or simultaneous direct connections between different first and second communication terminals are automatically and/or without active control by the user established, maintained and/or disconnected by the switch station and/or thereby data, which are not actively selected by the users, are accessed, transmitted, processed and/or output, wherein the number and/or duration of the connection(s), the data access, the data transfer, -processing and/or -output are controlled by predetermined and/or arbitrarily definable criteria, preferably the duration and/or the amount and/or kind of data.

With the method according to the invention, among others, client modules can, preferably during usage pauses,

successively be directly connected to arbitrary content provider servers and/or content provider servers determinable according to arbitrary criteria and/or so-called "adservers" for transmitting commercials without editorial intermediate steps, for short periods, respectively. Preferably, such connections are established between telephones, preferably mobile telephones, and the content provider servers before use and/or during usage pauses. The method according to the invention allows further to build up such connections between TV-sets and the content provider servers.

Advantageous and preferred embodiments of the method according to the invention according to claim 1 are subject matter of claims 2 to 14. Advantageous and preferred embodiments of the communication system according to the invention are subject matter of claims 15 to 17.

Especially preferred is the method according to claim 4.

Herein, the times, in which a first communication terminal of an interactive communication system is not used, are utilized for a transmission and/or an output of data, preferably information, especially preferably commercials.

With the also especially preferred method according to claim 5, the commercial can be interrupted as soon as the first communication terminal is used again.

The preferred methods according to claims 12 and 13 allow an particularly intelligent billing control for data network and/or telephone network usage and/or advantage granting/refunding to the user, the commercial placement and/or the calculation of costs for the initiator of the commercial placement.

In the following, embodiments of the invention are described. The following exemplary list of possible embodiments of the invention is not limiting, rather, the invention can be used in

an advantageous manner for all user purposes in which control methods are used in interactive communication systems.

In a suitable method according to the invention, in an interactive communication system (A) an arbitrary number of first communication terminals (B1a - B1n) and an arbitrary number of second communication terminals (B2a - B2n) are registered with at least one switch station (C), which is independent from said communication terminals, and/or an arbitrary number of successive and/or simultaneous direct connections (D1a - D1n) between different first communication terminals (B1a - B1n) and second communication terminals (B2a - B2n) are established, maintained and/or disconnected automatically and/or without active control by the user by the switch station and/or thereby data, which are not actively selected by the users, are accessed, transmitted, processed and/or output.

Suitable interactive communication systems in terms of the present invention are all communication systems in which a bidirectional connection between at least two communication terminals can be established. The Internet, computer networks, video- and/or multimedia networks, intranets in companies and public institutions are important examples as well as telecommunication systems, telephone, mobile telephone and/or facsimile systems, radio paging and/or radio data systems, TV-systems with control possibilities for the user, for example Pay-TV-systems, Pay-per-view- and/or Video-on-demand-systems and/or -connections.

Bidirectional connections are all systems, arrangements and/or methods for providing and/or transmitting data to communication terminals, wherein by the use of the communication terminals a possibility for controlling the connection and/or for providing and/or transmitting the data is given. Examples are telecommunication connections via satellite, cable and/or radio, intranet- and/or internet-connections via cable and/or radio and/or interactive TV-connections.

Suitable first communication terminals are all devices, which use the connection for providing and/or transmitting data. Examples are transmitters, computers and/or servers with network connections like modems, network cards and/or interfaces suitable for processing of wireless transmitted data, interfaces, ports and/or converters and/or telephone-and/or facsimile devices.

Suitable second communication terminals are all devices, which use the connection for receiving and/or storing, processing and/or outputting data. Examples are computers and/or client modules with network connections like modems, network cards and/or interfaces suitable for processing of wireless transmitted data, interfaces, ports and/or converters, telephone- and/or facsimile devices and/or TV-sets with intercommunication interfaces like for example set top boxes and/or the so-called "D-Box".

Suitable independent switch stations are all devices, which serve for an automated establishment and/or for an automated mediation of a direct connection and/or for an automated forwarding of data between at least two communication terminals. Examples are all kinds of hubs, interfaces, relay stations and/or servers, for example of telecommunication-and/or Internet providers, portals etc.

Suitable data in terms of the present invention are, in contrast to so-called technical and/or control data, such data which are perceptible by human sense organs and/or data which have a context being perceptible for humans, preferably audiovisual information and/or their automatically processable representations. Examples are mute, set, static and/or animated pictures and/or movies, preferably advertisement pictures and/or commercial spots.

In one example for use with the Internet (A), a PC user enters the identification of his client module (B1a) online at the server (C) of a service provider (commercial agent) and, therewith, registers as a commercial receiver. Advertisers enter the links for their servers (B2a - B2n) at the provider server as well and, therewith, register as commercial senders. If, for example, with the help of a locally applied software, a usage pause is automatically detected at the registered client module (commercial receiver), a connection to the provider server can automatically be established. With the help of an automatic link administration, the provider server mediates the connection directly to an advertisers' server (commercial sender). The PC user sees or hears the commercial spot of the homepage of the first advertisement server (B2a). After a predefined period of time, for example after 1, 10 or 30 seconds, said connection and/or the reproduction of the commercial spot is interrupted and a new connection to a second advertisers' server (B2b) can be established. The number and/or duration of said connections can be controlled by the end of the usage pause at the client module and/or by a predetermined period of time, etc. Arbitrary client modules can be connected simultaneously and/or successively with arbitrary advertisers' servers. The PC user accesses contents, which he cannot actively specify at the time of connection.

In a further embodiment of the method according to the invention, a second operating state (b) is automatically and/or after active and/or passive initiation by the user established on the occurrence of a predefined and/or arbitrarily definable first operating state (a) of a first communication terminal; the first operating state (a) is a predefined and/or arbitrarily definable use of the first communication terminal and/or a part of the first communication terminal for/at a predefined or arbitrarily definable time/period of time and/or a predefined and/or arbitrarily definable decreasing, non-and/or fewly/less varying use and/or usage interruption for/at a predefined or arbitrarily definable time/period of time, preferably the decrease, the decrease in variation and/or the interruption of the reception, the transmission and/or the output of external data and/or their representations

perceptible by the human senses via an existing connection of the first communication terminal to an external data source and/or a further communication terminal, preferably the decrease, the decrease in variation and/or the interruption of an input-, processing-, storing- and/or output procedure at/of the communication terminal, especially preferred the decrease, the decrease in variation and/or the interruption of an action and/or interaction of the user with/at the first communication terminal; especially preferred first operating states (a) are user interactions and/or decreasing, non- and/or less varying and/or interrupted user interactions with the first communication terminal for/at a predefined or arbitrarily definable time/period of time via remote control, keyboard, mouse, joystick, pen, trackball, patchfield, touchscreen, audiovisual recording and/or reproduction media and/or interfaces therefore;

a suitable second operating state (b) is the at least single establishment and/or the maintenance of a communication connection between the first communication terminal and an external data source and/or the at least single, preferably permanent transmission of external data and/or data not actively selected by the user and/or the at least single storage, processing and/or output of such external data by/at the first communication terminal at/for a predefined and/or arbitrarily definable time/period of time, wherein said communication connection, transmission, storage, processing and/or output is established newly and/or instead of and/or additionally to an existing communication connection and/or current transmission, storage, processing and/or output; for example with an interactive TV set having an operating mode in which the viewer switches frequently between different camera perspectives using the remote control, for example during Formula One transmissions on digital TV, a commercial spot is faded in automatically and/or after confirmation by the viewer, which may appear, for example, in a part of the screen if the

viewer does not change the camera selection for a defined period of time; an advertisement facsimile can be transmitted to facsimile devices which were used for a long time and/or in frequent intervals within a certain period of time as soon as a certain time after such a use has passed; in computers which have not been used for a certain period of time an Internet connection is automatically established, commercial pages and/or spots are transmitted and output at the display. Also unused and/or less used parts of the computer, for example loudspeakers and/or parts of the screen can be used for an online-placement of commercials.

In a preferred embodiment, a fourth operating state (d) is established automatically and/or after active and/or passive initiation by the user, if a predefined and/or arbitrarily definable third operating state (c) occurs after the occurrence of the second operating state (b), wherein the third operating state (c) is a predefined and/or arbitrarily definable usage interruption, usage and/or a reuse of the first communication terminal and/or a part of the first communication terminal at/for a predefined or arbitrarily definable time/period of time, an increase of use or an increasingly varying use at/for a predefined or arbitrarily definable time/period of time, preferably of the reception, the transmission and/or the output of external data and/or their representations perceptible by the human sense organs via an existing connection of the first communication terminal to an external data source and/or a further communication terminal and/or the establishment of such a connection, preferably an input-, processing-, storingand/or output procedure at/of the first communication terminal, very preferably of an action and/or interaction of the user with/at the first communication terminal.

Especially preferred third operating states (c) are user interactions and/or increasing and/or increasingly varying user interactions with the first communication terminal at/for a

predefined and/or arbitrarily definable time/period of time via remote control keyboard, mouse, joystick, pen, track ball, patch field, touch screen, audio/visual recording and/or reproduction media and/or interfaces therefore.

Preferred third operating states (c) are also first operating states (a) and/or second operating states (b) depending on at least one predefined and/or arbitrarily definable time and/or period of time and/or at least one predefined and/or arbitrarily definable kind, composition and/or amount of the transmitted-, processed-, stored- and/or output external data and/or their representations perceptible by the human sense organs.

A suitable fourth operating state (d) is the termination and/or interruption of the second operating state (b) for a predefined and/or arbitrarily definable period of time, preferably the termination and/or interruption of the communication connection between the first communication terminal and an external data source and/or the termination and/or interruption of the transmission, storage, processing and/or output of the external data at/by the first communication terminal and/or the change to and/or the new establishment of a communication connection which existed before the occurrence of the first operating state (a), the change to a predefined and/or arbitrarily definable further communication connection, the change to the operating state before the occurrence of the first operating state (a), the change to a predefined and/or arbitrarily definable further operating state and/or a predefined and/or arbitrarily definable action of the first communication terminal and/or interaction with further communication terminals and/or external data sources.

The connection can be interrupted automatically, after no activity has taken place at the computer for a certain period of time, for example 10 minutes. The computer can be

automatically switched off and/or switched to the stand-by mode and/or in a screen saver mode and/or to the original state (for example text processing or any user program).

Also a signal, for example an acoustic signal, can be output or an inquiry can be made to the user. In case of a reuse of an operational element of the computer the connection can also be interrupted automatically and/or changed to the original state.

In a further embodiment of the method the first operating state (a), the operating state before the occurrence of the first operating state (a), the second operating state (b), the third operating state (c) and/or the fourth operating state (d) and/or the time(s) and/or period(s) of time related to them and/or the kind(s), composition(s) and/or amount(s) of data are automatically detected, measured, processed, stored stationarily and/or non-stationarily and/or transmitted to one or several members of the communication system, preferably to external data sources and/or providers of the communication system and/or the detection, measurement, processing, storing and/or transmitting can be protected against intrusion and/or access by the user.

In a further advantageous embodiment socio-demographic data can be formed and/or assigned by qualifying, quantifying, categorizing and/or weighing of the operating state(s) (a), (b), (c) or (d) and/or the time(s) or period(s) of time related to them and/or the kind(s), composition(s) and/or amount(s) of data and/or predefined and/or arbitrarily definable external data, preferably data retrieved by the user, socio-demographic data like gender, age, residence, occupation and/or income, preferably data concerning the user behavior, data concerning hobbies, travel-, shopping behavior and/or consumption of music and/or media, very preferably psychographic user data, predefined and/or arbitrarily definable units and/or control codes, whereby said units, control codes and/or predefined

and/or arbitrarily definable combinations of said units and/or control codes are used to automatically control and/or account

- the operating state(s) (a), (b), (c) and/or (d)
- and/or the time(s) and/or period(s) of time related
 to them
- and/or the kind(s), composition(s) and/or amount(s)
 of the external data
- and/or the amount and/or kind of possible fees for the user, fee reductions, omitted fees, credited fees, refunded fees and/or equivalents, preferably cash benefits, payments in kind and/or services
- and/or the amount and/or kind of possible fees and/or equivalents for third parties, preferably suppliers and/or initiators of the transmitted external data.

For example, from a qualitative/quantitative encoding of the Internet access times while not being in operating state (b) according to the method (for example, 8:00 am to 8:00 pm = A, 8:00 pm to 8:00 am = B) and the contents of the accessed pages (erotic contents = X, other contents = Y) a control code can be formed or assigned, respectively, according to the kind of the transmitted data in the second operating state (b) according to the method.

Example: If the share of the preceding Internet use with the usage code BX is greater than 50% of the whole usage duration, commercials of Beate Uhse are transmitted in operating state (b); if the share is less than 50%, standard commercials are transmitted. The assignment may additionally take place depending on the time in which the operating state (b) according to the method occurs.

Example: If the share of the preceding Internet usage with the usage code BX is at least 25% of the whole usage time and the operating state (b) occurs between 8:00 pm and 4:00 am, commercials of Beate Uhse are transmitted in operating state (b); otherwise standard commercials are transmitted.

Using similar encoding methods all other parameters of the method can be controlled automatically in any combination. The operating state (b) can be activated according to the method between 8:00 am and 6:00 pm after a 10 minutes usage interruption and after another 10 minutes the computer can change into the operating state (d) (for example, stand-by mode). In the time between 10:00 pm and 6:00 am, the operating state (b) can be activated after a 2 minutes usage interruption and after another 20 minutes the computer can change into the operating state (d) (for example, switching off). In the second case the user could receive 5 free minutes as incentive, in the first case 10 minutes.

With a further suitable method the actual units and/or the units, that are retrieved during a predetermined and/or arbitrarily determinable period of time are output at the first communication terminal, preferably as cash values and/or time values and/or the control codes and/or the actions controlled by the control codes and/or the units can be output at the first communication terminal, preferably as cash values and/or time values and/or the units and/or control codes and/or the actions or values controlled by them can be changed after active and/or passive initiation by the user and/or by a predefined and/or arbitrarily definable use of the first communication terminal, stored stationarily and/or non-stationarily and/or transmitted to one or several members of the communication systems, preferably to external data sources and/or providers of the communication system.

For example, the user can see the display of the already collected free minutes during an operating state (b), for example 10 free minutes, and at any time receives the offer to receive 5 further free minutes by pressing a certain key. If the user presses the requested key, the input is - protected from user access - stored for example on a chip card or transmitted directly online to the provider. For the data or commercial spots, respectively, which have been transmitted during the operating state (b) preceding this input, increased costs are billed to the corresponding partners as the commercial spots have provably attracted the commercial receiver's attention.

In an embodiment, the kind of output, the frequency of output and/or intensity of output of the transmitted external data and/or their representations at the communication terminal are predefined and/or arbitrarily definable, are automatically recognized, processed, protected against user access and/or intrusion, stored stationarily and/or non-stationarily and/or are transmitted to one and/or several members of the communication system, preferably to external data sources and/or providers of the communication system. A TV set or a monitor can, in its state of delivery, be equipped with a window (split screen), or the size of an output window or the volume for commercials can be detected and serve for example as a basis for the price code.

PCT/EP/00/07936
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Claims

 Method for controlling an interactive and/or bi-directional communication system, preferably for controlling the supply of information, preferably of advertisement in interactive communication systems,

characterized in that

in an interactive communication system at least one first communication terminal and a second communication terminal, preferably arbitrary many first communication terminals and arbitrary many second communication terminals are registered with at least one switch station which is independent of said communication terminals and/or at least one direct connection, preferably arbitrary many successive and/or simultaneous direct connections between at least one, preferably arbitrary many different first communication terminals and at least one, preferably arbitrary many second communication terminals is established, maintained and/or interrupted automatically and/or without active control by the user by the switch station and/or thereby data which are not actively selected by the users are accessed transmitted, processed and/or outputted, whereby the number and/or duration of the connection(s), the data accesses, the data transmission, the data processing and/or the data output are controlled by predefined and/or arbitrarily definable criteria, preferably by duration and/or amount of data and/or kind of data.

2. Method according to claim 1,

characterized in that

the number of connections, the data accesses, the data transmissions, the data processings and/or data outputs is arbitrary high, preferably 1 to 100, more preferably 1 to 25, especially preferably 1 to 10, and/or the duration of the connection(s), , the data access, the data transmission, the data processings and/or the data output is up to 120 minutes, preferably 1 microsecond to 10 minutes, more preferably 0.1 seconds to 60 seconds, especially preferably 1 second to 30 seconds.

3. Method according to one of claims 1 or 2,

characterized in that

the first communication terminal(s) and the second communication terminal(s) act as data source and data receiver at the same time.

- Method according to one of the preceding claims,
 characterized in that
- on occurrence of a predefined and/or arbitrarily definable first operating state (a) of at least one first communication terminal, a second operating state (b) is established automatically and/or after active and/or passive initiation by the user, whereby said second operating state (b) is the at least single establishment, and/or the maintenance of a communication connection between said first communication terminal and a second communication terminal and a second communication terminal acting as a data source and/or the at least single, preferably permanent transmission of external data and/or data which has not actively been selected

by the user and/or the at least single storage, processing and/or outputting of said external data by/at the first communication terminal for a predefined and/or arbitrarily definable period of time, whereby such a communication connection, transmission, storage, processing and/or output is established and/or takes place newly and/or instead of and/or additionally to an existing transmission, storage, processing and/or output.

- 5. Method according to at least one of the preceding claims, characterized in that
- on occurrence of a predefined and/or arbitrarily definable third operating state (c) after the previously occurred second operating state (b), a fourth operating state (d) is established automatically and/or after active and/or passive initiation by the user.
 - 6. Method according to at least one of the preceding claims, characterized in that

the first operating state (a) is a predefined and/or arbitrarily definable use of the first communication terminal and/or a part of the first communication terminal at/for a predefined and/or arbitrarily definable time/period of time and/or a predefined and/or arbitrarily definable decreasing, non- and/or fewly/less varying use and/or an interruption of the use at/for a predefined and/or arbitrarily definable time/period of time,

preferably the decrease, the decrease in variation and/or the interruption of the reception, the transmission and/or the output of external data and/or their representations perceptible by the human sense organs via an existing connection of the first communication terminal to external data source and/or a further communication terminal, preferably the decrease, the decrease variation and/or the interruption of processing-, storing- and/or output procedure at/of the first communication terminal, especially preferably the decrease, the decrease in variation and/or the interruption of an action and/or interaction of the user with/at the first communication terminal; especially preferable first operating states (a) are user interactions decreasing, non- or less varying and/or interrupted user interactions with said first communication terminal at/for a predefined and/or arbitrarily definable time/period of time via remote control, keyboard, mouse, joystick, pen, trackball, patchfield, touchscreen, audiovisual recording and/or reproduction media and/or interfaces therefore.

7. Method according to at least one of the preceding claims, characterized in that

the third operating state (c) is a predefined and/or arbitrarily definable usage interruption, use and/or a reuse of the first communication terminal and/or a part of the first communication terminal at/for a predefined and/or arbitrarily definable time/period of time, an increase of use or an increasingly varying use at/for a predefined and/or arbitrarily definable time/period of time, preferably of the reception, the transmission and/or the output of external data and/or their representations perceptible by the human sense organs via an existing

connection of the first communication terminal to an external data source and/or a further communication terminal and/or the establishment of such a connection, preferably of an input-, processing-, storage- and/or output procedure of the communication terminal, very preferably of an action and/or interaction of the user with/at the first communication terminal; especially preferred third operating states (c) are a user interactions and/or increasing and/or increasingly varying user interactions with the first communication terminal at/for a predefined and/or arbitrarily definable time/period of time via remote control keyboard, mouse, joystick, pen, track ball, patch field, touch screen, audio/visual recording and/or reproduction media and/or interfaces therefore; preferred third operating states (c) are also first operating states (a) and/or a second operating state (b) depending on a predefined and/or arbitrarily definable time and/or period of time and/or depending on a predefined and/or arbitrarily definable kind, composition and/or amount of the transmitted, processed, stored and/or outputed external data and/or their representations perceptible by human sense organs.

8. Method according to at least one of the preceding claims, characterized in that

the fourth operating state (d) is the termination and/or the interruption of the second operating state (b) at/for a predefined and/or arbitrarily definable time/period of time, preferably the termination and/or interruption of the communication connection between the communication terminal and an external data source and/or the termination and/or interruption of the transmission, storage, processing and/or output of the external data at/by the first communication terminal and/or the change to and/or the new establishment of a communication

connection which existed before the occurrence of the first operating state (a), the change to a predefined and/or arbitrarily definable further communication connection, the change to the operating state before the occurrence of the first operating state (a), the change to a predefined and/or arbitrarily definable further operating state and/or a predefined and/or arbitrarily definable action of the first communication terminal and/or interaction with further communication terminals and/or external data sources.

9. Method according to at least one of the preceding claims, characterized in that

the first operating state (a), the operating state before the occurrence of the first operating state (a), the second operating state (b), the third operating state (c) and/or the fourth operating state (d) and/or the times, periods of time and/or kind(s), composition(s) and/or amount(s) of the data related to them are automatically recorded, recognized, measured, processed, stored stationarily and/or non-stationarily and/or transmitted to one and/or several members of the communication system, preferably to external data sources and/or providers of the communication system(s).

10. Method according to at least one of the preceding claims, characterized in that

the recorded-, recognized-, measured-, processed-, storedand/or transmitted data are protected against an intrusion or access by the user. 11. Method according to at least one of the preceding claims, characterized in that

predefined and/or arbitrarily definable units or control codes are formed and/or assigned by a qualification, quantification, categorization and/or weighting of the operating state(s) (a), (b), (c) and/or (d) and/or the times, periods of time and/or the kind(s), composition(s) and/or amount(s) of data related to them and/or by predefined and/or arbitrarily definable external data, preferably data retrieved by the user.

12. Method according to at least one of the preceding claims, characterized in that

the control codes, units and/or predefined and/or arbitrarily definable combinations of said units and/or control codes are used to automatically control and/or account

- the operating state(s) (a), (b), (c) and/or (d)
- and/or the time(s) and/or period(s) of time related
 to them
- and/or the kind(s), composition(s) and/or amount(s)
 of the external data
- and/or the amount and/or kind of possible fees for the user, fee reductions, omitted fees, credited fees, refunded fees and/or equivalents, preferably cash benefits, payments in kind and/or services
- and/or the amount and/or kind of possible fees
 and/or equivalents for third parties, preferably

suppliers and/or initiators of the transmitted external data.

13. Method according to at least one of the preceding claims, characterized in that

the actual units and/or control codes and/or the actions and/or values controlled by them and/or the units and/or control codes and/or the actions and/or values controlled by them, that are retrieved during a predetermined and/or arbitrarily definable period of time are output at the first communication terminal, preferably as cash values and/or time values and/or, after an active and/or passive initiation of the user, are changed by a predefined use of the first communication terminal, are stored stationarily or non-stationarily and/or are transmitted to one and/or several members of the communication system, preferably to a second communication terminal in the communication system.

14. Method according to at least one of the preceding claims, characterized in that

the kind of output, the output frequency and/or -intensity of the transmitted external data and/or their representations at the first communication terminal are predefined, arbitrarily definable, automatically recognized, processed, stored stationarily and/or non-stationarily, protected against user access or intrusion and/or transmitted to one and/or several members of the communication system, preferably to second communication terminals and/or and/or providers of the communication system.

15. Interactive and/or bi-directional communication system having at least one first communication terminal, at least one second communication terminal and at least one switch station which is independent from said communication terminals,

characterized in that

the hardware and/or software of said communication terminals and the switch station is adapted to execute the method according to one of claims 1 to 14.

16. Communication system according to claim 15,

characterized in that

it comprises a telecommunication system or telephone-and/or facsimile systems or a radio paging- and/or radio data system and/or mobile phone or an interactive TV system, pay-TV-, pay-per-view- and/or video-on-demand system or a computer network, an intranet, an extranet or an interactive video and/or multimedia network and/or the Internet and/or hybrid combinations of such communications systems.

17. Communication system according to one of claims 15 or 16,

characterized in that

the second communication terminal(s) is a data source/are data sources, preferably content-provider server(s), especially preferably so called adserver(s) and/or adpage(s) and/or the first communication terminal(s) is/are a data receiver, preferably telephone(s), mobile phone(s), PC(s) and/or client module(s).

Abstract

The invention relates to a method for controlling an interactive and/or bi-directional communications system in which communications terminals in the communications system are directly interconnected, in an automatic manner and/or without active control effected by the user, after registering with a switching station for a finite time.

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare:

That my residence, post office address and citizenship are as stated below next to my name.

That I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INTERACTIVE COMMUNICATION SYSTEM AND METHOD FOR CONTROLLING THE SAME

the specification of	which	(check one)	
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322.66244

[]	is attached hereto.	
[X]	was filed on 14 August 2000	a:
	Application Serial No. PCT/EP00/07936	
	and was amended on	
	(if applicable)	

That I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

That I acknowledge the duty to disclose information known to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

That I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate on this invention having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s) Priority Claimed 199 39 410.5 Germany 20 August 1999 [] (Number) (Country) (Day/Month/Year Filed) No 100 19 719. Germany 20 April 2000 [X][] (Number) (Country) (Day/Month/Year Filed) Yes No [] []

That I hereby claim the benefit under Title 35, United States Code, §119 and/or §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Day/Month/Year Filed)

United States Application(s)

(Number)

(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status)-(Patented, pending, abandoned)

(Country)

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

I hereby appoint the following attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to GREER, BURNS & CRAIN, LTD., 300 South Wacker Drive, 25th Floor, Chicago, Illinois 60606, Telephone No. (312) 360-0080:

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26,174
29,367
31,497
35,132
30,270
37,538
41,895
30,778
44,159
43,874
40,607
47,954
48,872

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Inventor's signature:		for fit
Date:		1/22-08-02
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Full name of additional		
joint inventor, if any:		
Inventor's signature:		
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